

JIS

JAPANESE INDUSTRIAL STANDARD

**Medium for tissue culture
(minimum essential medium)**

JIS K 3604^{—1990}

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Medium for tissue culture (minimum essential medium)

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1. Scope

This Japanese Industrial Standard specifies the system of minimum essential medium (hereafter referred to as the "powder medium") developed by Eagle out of powder mediums to be used for cultivation of animal texture and cells in the fields relating to biotechnology.

Remarks 1. Applicable Standards to this Standard are shown in Attached Table 1.

2. In this Standard units and numerical values shown in { } are in accordance with the traditional units and, appended for informative reference.

2. Common Matters

Common matters relating to the chemical analysis shall be in accordance with JIS K 0050.

3. Definitions

For the purposes of this Standard main definitions are in accordance with JIS K 0211 and JIS K 3600 and for others, the following definitions apply:

(1) sterilization The sterilization means the disinfection or removing all microbes (provided, excepting virus.) in the objects.

(2) pure water Redistilled water or the water equivalent thereto. For example, the water passed through revers osmosis film which is passed further through ion exchange resin, the ion exchanged water distilled or the like.

4. Classification and Composition

4.1 Classification of Powder Mediums Powder mediums shall, according to the suitable property of composition and sterilization, be classified as given in Table 1.

Table 1. Classification of Powder Mediums

Classification		Remark
R system	For filtration sterilization	The system prepared by using buffer solution of R hydrogen carbonate system developed for the purpose mainly for using under 5 % carbon dioxide, residual air phase.
	For high pressure steam sterilization	
Hanks' system	For filtration sterilization	The system prepared by using buffer solution of Hanks' phosphoric acid system developed for the purpose mainly under air phase.
Float cell system	For filtration sterilization	The system made possible for float culture without adding calcium salts.
	For high pressure steam sterilization	

4.2 Composition of Powder Medium The composition of powder mediums shall be as given in Table 2.